WHAT IS CLAIMED IS:

l	1. A method for compiling data to enhance diagnosis of a myocardial
2	infarction, the method comprising:
3	measuring multiple-lead electrocardiogram data of multiple patients;
4	sorting the measured data into groups, each group correlating measured data
5	from one or more of the patients with ischemia in a heart region; and
6	storing the group correlations.
1	2. The method of claim 1, wherein the measuring step further comprises:
2	acquiring electrocardiogram data from the patients with the multiple-lead
3	electrocardiogram while the patients are experiencing temporary ischemia during
4	percutaneous transluminal coronary angioplasty; and
5	identifying at least one location of the temporary ischemia on the heart of each
6	patient.
1	3. The method of claim 1, wherein the measuring step further comprises:
2	acquiring electrocardiogram data from the patients with the multiple-lead
3	electrocardiogram while the patients are suspected to be experiencing ischemia;
4	confirming that the patients experienced ischemia; and
5	identifying at least one location of the ischemia on the heart of each patient.
1	4. The method of claim 3, wherein the confirming and mapping steps
2	comprise conducting an angiogram procedure.
1	5. The method of claim 2 or 3, wherein the at least one location is taken
2	from a group consisting of an anteroseptal location, an inferior location, a posterolateral
3	location.
1	6. The method of claim 1, wherein the measuring step includes measuring
2	cardiac data using an electrocardiogram device having greater than 12 leads.
1	7. The method of claim 6, wherein the measuring step includes measuring
2	the cardiac data using an electrocardiogram device having 62 leads.
1	8. A method for enhancing diagnosis of a myocardial infarction in a
2	notions the method comprising

3	matching cardiac data acquired from the patient with stored cardiac ischemia
4	correlation data, wherein the stored cardiac data is derived from multiple ischemia patients
5	sorted into groups of patients based on locations on the ischemia patients' hearts where
6	ischemia occurred; and
7	identifying at least one location of ischemia on the patient's heart, based on
8	the stored cardiac data that matches the acquired cardiac data.
1	9. The method of claim 8, wherein the at least one location is taken from
2	a group consisting of an anteroseptal location, an inferior location, a posterolateral location.
1	10. The method of claim 8, further comprising determining whether a
2	myocardial infarction occurred in the patient.
1	11. The method of claim 8, further comprising determining a size of the
2	myocardial infarction.
1	12. The method of claim 11, wherein determining a size of the myocardial
2	infarction comprises:
3	defining a relationship between at least one electrocardiogram characteristic
4	and a typical myocardial infarction size; and
5	comparing the acquired electrocardiogram data and the at least one
6	electrocardiogram characteristic to determine whether the myocardial infarction has the
7	typical myocardial infarction size.
1	13. A method for enhancing diagnosis of a myocardial infarction in a heart
2	of a patient, the method comprising:
3	acquiring cardiac data from the heart using a multiple-lead electrocardiogram
4	device;
5	matching the cardiac data to stored cardiac data derived from at least one
6	ischemia patient, wherein the location of ischemia on the ischemia patient's heart is known;
7	and
8	displaying information regarding at least one location of ischemia on the
9	patient's heart, based on the matching stored cardiac data for the ischemia patient.
1	14. A system for using stored electrocardiogram data to enhance diagnosis
2	of a myocardial infarction in the heart of a patient, the system comprising:

3	a data storage module for storing a correlation database derived from
4	electrocardiogram data of multiple patients, the patients having either experienced a
5	myocardial infarction or temporary cardiac ischemia during percutaneous transluminal
6	coronary angioplasty and the data being sorted according to locations of ischemia on the
7	hearts of the patients; and
8	computer software for enabling comparison of new electrocardiogram data to
9	the stored electrocardiogram data to determine a location of ischemia in the heart of the
10	patient.
1	15. The system of claim 14, further comprising:
2	at least one disposable substrate for placement on the patient, the substrate
3	including multiple electrocardiogram leads; and
4	at least one display module for displaying information about the patient's heart
5	to a user.
1	16. The system of claim 17, wherein the display module is configured to
1	provide an integral map of the patient's heart and a three-dimensional image of the patient's
2	heart which shows a location of ischemia.
3	heart which shows a location of ischema.
1	17. An apparatus for enhancing diagnosis of myocardial infarctions, the
2	apparatus comprising a database derived from electrocardiogram data from multiple patients
3	with cardiac ischemia in known locations on the heart, the database derived by sorting the
4	electrocardiogram data into multiple groups based on the known locations.
1	18. The apparatus of claim 17, further comprising angiogram or thallium
2	scan data for each of the multiple patients.
1	19. An apparatus for enhancing diagnosis of myocardial infarctions, the
2	apparatus comprising a disposable panel having multiple electrocardiogram leads, the panel
3	configured for placement on or under a patient to acquire cardiac data from the patient.